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An efficient BIST method for distributed small buffers

Dept. of Comput. Sci. & Inf. Eng., Nat. Chung-Cheng Univ., Chiayi, Taiwar Jone W.B. Huang D.C. W. S.C. Lee K.J.

This paper appears in: Yery Large Scale Integration (VLSI) Systems, IEEE Transactions on

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memory modules with different sizes. Using the concept of redundant read-write operations, we develop a new march method, called method to virtually partition each large memory array into smaller modules, which can be tested simultaneously fault coverage. The total test time is dominated by large-size modules. To further reduce the test time, we also propose a split-mode test RSMarch, to efficiently test each memory module. The new method has the advantages of low hardware overhead, short test time, and high-In this work, we propose a new built-in self-testing (BIST) method that is able to concurrently test a set of spatially distributed embedded-

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Author Keywords

Not Available

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An efficient BIST method for non-traditional faults of embedded memory arrays, Jone, W.-B.; Der-Chen Huang; Das, S.R.
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